

### Number

...or **NUMB**, for the correct order of operations, take care when using a calculator.

- Brackets
- Orders (or powers)
- Division and Multiplication
- Addition and Subtraction

### Types of number

**Integer:** a 'whole' number  
Factors: the divisors of an integer  
• Factors of 12 are 1, 2, 3, 4, 6, 12  
Multiples: a 'times table' for an integer (with infinite multiples)  
• Multiples of 12 are 12, 24, 36, ...  
Prime number: an integer which has exactly two factors (1 and the number itself). Note it is not a prime number.

### Units

**Highest Common Factor (HCF)**  
• Factors of 6 are 1, 2, 3, 6  
Factors of 9 are 1, 3, 9  
HCF of 6 and 9 is 3

### Lowest Common Multiple (LCM)

• Multiples of 6 are 6, 12, 18, 24, ...  
Multiples of 9 are 9, 18, 27, 36, ...  
LCM of 6 and 9 is 18

### Power notation

Write a number as a product of its prime factors, and follow for repeated factors.  
•  $120 = 2 \times 2 \times 2 \times 3 \times 5$

### Indices and roots

Special indices for any value  $a$   
 $a^0 = 1$   
 $a^{-1} = \frac{1}{a}$   
 $a^{\frac{1}{2}} = \sqrt{a}$

### Ordering with fractions

Adding or subtracting fractions, use a common denominator.  
•  $\frac{1}{2} + \frac{1}{3} = \frac{3}{6} + \frac{2}{6} = \frac{5}{6}$

### Multiplying fractions

Multiplying fractions: multiply numerators and denominators.  
•  $\frac{1}{2} \times \frac{1}{3} = \frac{1 \times 1}{2 \times 3} = \frac{1}{6}$

### Working fractions 'top' the second fraction

Working fractions 'top' the second fraction, then multiply.  
•  $\frac{1}{2} \div \frac{1}{3} = \frac{1}{2} \times \frac{3}{1} = \frac{3}{2}$

### Problems involving

Problems involving:  $\frac{a}{b} \div \frac{c}{d} = \frac{a}{b} \times \frac{d}{c}$   
•  $\frac{1}{2} \div \frac{1}{3} = \frac{1}{2} \times \frac{3}{1} = \frac{3}{2}$

### Least of the most frequently used ones

1	2	3	4	5	6	7	8	9	10
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### Algebra

Look for the biggest square number factor of the coefficient.  
•  $12x^2 = 4 \times 3 \times x^2 = 4x^2 \times 3x$

### Standard form

Standard form numbers are of the form:  $a \times 10^n$  where  $1 \leq a < 10$  and  $n$  is an integer.

### Scientific notation

1 metre = 1000 millimetres  
1 kilometre = 1000 metres  
1 metre = 100 centimetres  
1000 millimetres = 1000 millimetres  
1 centimetre = 10 millimetres

### Time

1 day = 24 hours  
1 hour = 60 minutes = 3600 seconds  
1 minute = 60 seconds

### Area and perimeter

Calculate the perimeter, then use it to 'double' (if) to find area or length.  
Perimeter (units) = the distance round  
• Length (units) = 10 units  
• Width (units) = 5 units

### Area and perimeter

Find the area of rectangles that will equal to a given value.  
•  $a = 5$  (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13) (14) (15) (16) (17) (18) (19) (20) (21) (22) (23) (24) (25) (26) (27) (28) (29) (30) (31) (32) (33) (34) (35) (36) (37) (38) (39) (40) (41) (42) (43) (44) (45) (46) (47) (48) (49) (50) (51) (52) (53) (54) (55) (56) (57) (58) (59) (60) (61) (62) (63) (64) (65) (66) (67) (68) (69) (70) (71) (72) (73) (74) (75) (76) (77) (78) (79) (80) (81) (82) (83) (84) (85) (86) (87) (88) (89) (90) (91) (92) (93) (94) (95) (96) (97) (98) (99) (100)

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### Geometry & measures



### Area and perimeter

Equation of straight line  $y = mx + c$  as in the graph,  $c$  is the  $y$ -intercept.  
Find the equation of the line that joins (0, 2) to (2, 1).  
Find its gradient.  
 $m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{1 - 2}{2 - 0} = -\frac{1}{2}$   
and its  $y$ -intercept.  
From the graph,  $c = 2$   
Equation is  $y = -\frac{1}{2}x + 2$

### Area and perimeter

Parallel lines, gradients are equal.  
•  $y = 2x + 3$  and  $y = 2x + 5$  both have gradient 2 so are parallel.

### Area and perimeter

$g(x) = x^2 + 3x + 2$   
 $h(x) = x^2 + 2x + 1$   
 $(g + h)(x) = (x^2 + 3x + 2) + (x^2 + 2x + 1)$   
 $= x^2 + 3x + 2 + x^2 + 2x + 1$   
 $= 2x^2 + 5x + 3$

### Area and perimeter

Reverse of expanding is factorising: putting an expression into brackets.  
**Factorisation**  
Take a quadratic for factorising.  
•  $x^2 + 5x + 6 = (x + 2)(x + 3)$   
Factorise brackets (taking care with any negative numbers).  
 $x^2 + 30x + 251 = (x + 1)(x + 251)$   
Then either  $x = -1$  or  $x = -251$  so that  $x + 1 = 0$  or  $x + 251 = 0$ .

### Area and perimeter

$a^2 - b^2 = (a + b)(a - b)$   
•  $x^2 - 25 = (x + 5)(x - 5)$

### Area and perimeter

**Simultaneous equations**  
• Solve  $\begin{cases} 2x + 3y = 11 \\ 3x + 2y = 14 \end{cases}$   
Multiply to make  $x$  or  $y$  the same.  
 $\begin{cases} 2x + 3y = 11 \\ 6x + 4y = 28 \end{cases}$   
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Add or subtract to cancel.  
 $\begin{cases} 2x + 3y = 11 \\ -6x - 4y = 28 \end{cases}$   
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Finally, substitute and solve.  
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### Area and perimeter

**Area and perimeter**  
The subject of a formula is the letter on the left, the value that 'follows' the formula to change the subject.  
• Make  $x$  the subject of  $3x + 2y = 10$   
 $3x + 2y = 10$   
 $3x = 10 - 2y$   
Now, subtract  $2y$  from both sides.  
 $3x = 10 - 2y$   
Now divide both sides by 3.  
 $x = \frac{10 - 2y}{3}$

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### Algebra



### Area and perimeter

Pythagorean Theorem: Right-angled triangle. The longest side of any right-angled triangle is the hypotenuse. Check that your answer is consistent with this.  
Special values of sin, cos, tan. Learn (or be able to find without a calculator).  

$\theta$	$\sin \theta$	$\cos \theta$	$\tan \theta$
0	0	1	0
30	$\frac{1}{2}$	$\frac{\sqrt{3}}{2}$	$\frac{1}{\sqrt{3}}$
45	$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{2}}{2}$	1
60	$\frac{\sqrt{3}}{2}$	$\frac{1}{2}$	$\sqrt{3}$
90	1	0	-

### Area and perimeter

**Area and perimeter**  
The 'SAS' or 'SSA' rule to find a missing angle.  

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### Area and perimeter

**Area and perimeter**  
Area of triangle =  $\frac{1}{2} \times \text{base} \times \text{height}$   
Volume of prism =  $\text{length} \times \text{width} \times \text{height}$   

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# Pixl Maths Past Gcse Papers

**School Mathematics Project**



## **Pixl Maths Past Gcse Papers:**

**GCSE Mathematics for Edexcel Higher Student Book** Karen Morrison, Julia Smith, Pauline McLean, Nick Asker, Rachael Horsman, 2015-05-21 A new series of bespoke full coverage resources developed for the 2015 GCSE Mathematics qualifications Endorsed for the Edexcel GCSE Mathematics Higher tier specification for first teaching from 2015 this Student Book provides full coverage of the new GCSE Mathematics qualification With a strong focus on developing problem solving skills reasoning and fluency it helps students understand concepts apply techniques solve problems reason interpret and communicate mathematically Written by experienced teachers it also includes a solid breadth and depth of quality questions set in a variety of contexts GCSE Mathematics Online an enhanced digital resource incorporating progression tracking is also available as well as a free Teacher s Resource Problem solving Books and Homework Books

**GCSE Mathematics for OCR Higher Student Book** Karen Morrison, Julia Smith, Pauline McLean, Rachael Horsman, Nick Asker, 2015-04-16 A new series of bespoke full coverage resources developed for the 2015 GCSE Mathematics qualifications Endorsed for the OCR J560 GCSE Mathematics Higher tier specification for first teaching from 2015 this Student Book provides full coverage of the new GCSE Mathematics qualification With a strong focus on developing problem solving skills reasoning and fluency it helps students understand concepts apply techniques solve problems reason interpret and communicate mathematically Written by experienced teachers it also includes a solid breadth and depth of quality questions set in a variety of contexts GCSE Mathematics Online an enhanced digital resource incorporating progression tracking is also available as well as Problem solving Books Homework Books and a free Teacher s Resource

**Changing Schools: Perspectives on Five Years of Education Reform** Robert Peal, 2015-06-01 Changing Schools is a collection of essays by teachers researchers and administrators who have been on the front line of the revolutionary changes taking place in state education over the last five years Their chapters cover topics such as assessment academy chains use of educational research free schools and social media and will be required reading for anyone wanting to understand England s rapidly changing educational landscape Contributors include Andrew Old prominent teacher blogger Tom Bennett founder of ResearchEd Jonathan Simons head of education at the think tank Policy Exchange Katherine Birbalsingh Head of Michaela Community School James O Shaughnessy Managing Director of Floreat Education and former Policy Director for David Cameron Daisy Cristodoulou head of research at ARK Schools Doug Lemov Managing Director of Uncommon Schools and author of Teach Like a Champion

*The Slightly Awesome Teacher* Dominic Salles, 2016-08-15 Most books on teaching ask teachers to be inspirational to operate at 100 miles an hour with creativity oozing out of every pore Dominic Salles says that s unsustainable But you can get brilliant results using some simple practices taken from the myriad of educational research on classroom practices It isn t a guide to all the extra stuff you should do to become cool and awesome It is a book that will get you to forget about teaching and think about learning another way of saying it will help you to stop stressing about what you

do and get the students to work harder and smarter at what they do Dominic Salles believes that every teacher can be slightly awesome And here he shows you how      **Revise Edexcel GCSE (9-1) Mathematics Past Papers Plus Foundation Tier** Pearson Education, Limited,2019-03-18 Exam Board Edexcel Level GCSE Subject Maths First teaching September 2015 First exams June 2017 Our revision resources are the smart choice for those revising for Pearson Edexcel GCSE 9 1 Mathematics This book contains real exam papers taken by students with plenty of additional content to guide students through completing them This book will help them to Prepare for your exam by familiarising yourself with the approach of the papers and the exam style questions Practise answering questions by writing straight into the book just as you would in an exam Perfect your responses with targeted hints guidance and support for every question including fully worked solutions Not sure where to start with a question or keen to avoid those common pitfalls Check out the support in the margin of every question for hints tips and insights from experienced teachers along with links to further topic coverage in the Revision Guide      *New GCSE Maths Practice Papers: Higher - For the Grade 9-1 Course* CGP Books,2016-08-22

Higher Maths Past Papers Leckie & Leckie,Scottish Qualifications Authority,2001-11-01      *New GCSE Maths Edexcel Practice Papers: Foundation - For the Grade 9-1 Course* ,2016-08-22      **GCSE Maths is Easy: Practice Papers Foundation Sets 1 & 2** ,2016-01      **GCSE Practice Papers in Mathematics (higher Level)** J. J. McCarthy,1988

*New GCSE Maths Practice Papers: Foundation - For the Grade 9-1 Course* CGP Books,2016-08-22      *Gcse Maths Practice Exam Papers - Higher* CGP Books,Richard Parsons,2007-09-01 This pack contains six realistic exam style practice papers for Higher level GCSE Maths It also includes a formula sheet and detailed answer book so that students can mark their own work      **GCSE Practice Papers in Mathematics (intermediate Level)** J. J. McCarthy,1989      *Higher GCSE Mathematics* David Rayner,2000 Oxford s best selling Revision and Practice books are renowned for their clear explanations and examples supported by a wealth of practice exercises and past examination questions that build students confidence for the exams ahead Building on the experience of earlier best selling titles David Rayner s new textbook provides valuable practice and challenging revision exercises for all students aiming for higher grades at GCSE Up to date curriculum coverage New non calculator work in line with curriculum changes Clear explanations and worked examples Numerous carefully constructed exercises and a section of ideas for longer investigations to encourage students to use and apply the mathematics they have learnt Practice exam questions Numerical answers to all questions      GCSE Mathematics Revision Higher Tier School Mathematics Project,1998-01-29 This school revision book covers the material for all GCSE syllabuses at Higher tier Each topic is clearly presented either on a single page or double page spreads with a clear summary of the key ideas and a range of questions many from past examination papers set by a variety of boards Answers to all questions are provided as are hints for gaining credit in examinations The book also features cross references to related ideas references to SMP 11 16 textbooks and to the accompanying worksheet pack for extra practice mixed exercises and practice aural papers

Intermediate 1 Maths Past Papers Leckie & Leckie,2002-03-01      GCSE Practice Papers Maths Higher - Class Pack  
,2007-09-01      **Edexcel GCSE Maths 9-1** GCSE Revisions,2019-04-21      **GCSE Mathematics Revision Foundation**  
**Tier** School Mathematics Project,1998-10-01 This school revision book covers the material for all GCSE syllabuses at  
Foundation tier Each topic is presented either on a single page or as a two page spread with a clear summary of the key  
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SMP 11 16 textbooks and to the accompanying worksheet pack for extra practice and mixed exercises      **GCSE Maths is**  
**Easy: Practice Papers - Higher Tier Sets 1 & 2** Marilyn Shepherd,2016-03-21

## The Enigmatic Realm of **Pixl Maths Past Gcse Papers**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Pixl Maths Past Gcse Papers** a literary masterpiece penned by a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those who partake in its reading experience.

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